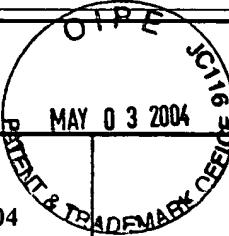


**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
(Under 37 CFR 1.97(b) or 1.97(c))**

Docket No.  
3829.04

In Re Application Of: **WECHTER, ET AL.**



Serial No.  
10/762,681

Filing Date  
JANUARY 21, 2004

Examiner  
N/A

Group Art Unit  
N/A

Title: **THERAPEUTICALLY ACTIVE COMPOUNDS**

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**37 CFR 1.97(b)**

- The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**37 CFR 1.97(c)**

- The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

the statement specified in 37 CFR 1.97(e);

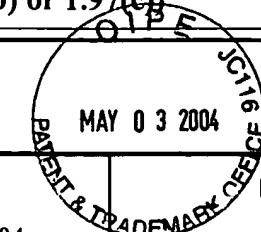
**OR**

the fee set forth in 37 CFR 1.17(p).

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
 (Under 37 CFR 1.97(b) or 1.97(c))

Docket No.  
 3829.04

In Re Application: **WECHTER, ET AL.**



Serial No.	Filing Date	Examiner	Group Art Unit
10/762,681	JANUARY 21, 2004	N/A	N/A

**THERAPEUTICALLY ACTIVE COMPOUNDS**

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(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

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Dated: **APRIL 28, 2004**

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LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANTS INFORMATION DISCLOSURE  
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APPLICANT : WECHTER, ET AL.

FILING DATE : JANUARY 21, 2004

GROUP N/A

REFERENCE DESIGNATION EXAMINER INITIAL	U.S. PATENT DOCUMENTS						FILING DATE IF APPROPRIATE
	DOCUMENT NUMBER			DATE	NAME	CLASS	
		DOCUMENT NUMBER			DATE	COUNTRY	CLASS
						US	SUBCLASS

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

A	Stokke, O., et al. Biochim. Biophys. Acta 144, 271-84 (1967) $\alpha$ -Oxidation as an alternative pathway for the degradation of Branched-Chain Fatty acids in man and its failure in Patients with Refsum's disease
B	Steinberg, D., et al. J. Lipid Res. 7, 684-91 (1966) Effects of dietary phytol and phytanic acid in animals
C	McCarty, M.F. Med. Hypothesis 56, 217-19 (2001) The chlorophyll metabolite phytanic acid is a natural retinoid - potential for treatment and prevention of diabetes
D	Verhoeven, N.M., et al. Eur. J. Pediatr. 156, S83-87 (1997) Stable isotope studies of phytanic acid $\alpha$ -Oxidation: in vivo production of formic acid
E	Mize, C.E., et al. Biochim. Biophys. Acta 176, 720-39 (1969) A major pathway for the mammalian oxidative degradation of phytanic acid
F	Baxter, J.H. J. Lipid Res. 9, 636-641 (1968) Absorption of chlorophyll phytol in normal man and in patients with Refsum's disease
G	Wierzbicki, A.S., et al. J. Lipid Res. 44, 148-188 (2003) Metabolism of phytanic acid and 3-methyl-adipic acid excretion in patients with adult Refsum disease
H	Wanders, R.J.A., et al. Biochim. Biophys. Acta 1631, 119-135 (2003) Phytanic acid $\alpha$ -Oxidation, new insights into an old problem: a review
I	Ferdinandusse, S., et al. J. Lipid Res. 43, 438-444 (2002) Stereochemistry of the peroxisomal branched-chain fatty acid $\alpha$ - and $\beta$ -oxidation systems in patients suffering from different peroxisomal disorders
J	Verhoeven, N.M. et al. J. Lipid Res. 39, 66-74 (1998) Phytanic acid and pristanic acid are oxidized by sequential peroxisomal and mitochondrial reactions in cultured fibroblasts
K	Van Veldhoven P.P., et al. Biochem. Soc. Transac. 29, 292-98 (2001) Further insights into peroxisomal lipid breakdown via $\alpha$ - and $\beta$ -oxidation
L	Verhoeven, N.M. and Jakobs, C. Prog. Lipid Res. 40, 453-466 (2001) Human Metabolism of phytanic acid and pristanic acid
M	Schluter, A., et al. FEBS Lett. 517, 83-6 (2002) Phytanic acid, but not pristanic acid mediates the positive effects of phytol derivatives on brown adipocyte differentiation
N	Schluter, A., et al. Biochem. J. 362, 61-69 (2002) Phytanic acid, a novel activator of uncoupling protein-1 gene transcription and brown adipocyte differentiation
O	Verhoeven, N.M. et al. J. Lipid Res. 40, 260-6 (1999) Analysis of pristanic acid $\beta$ -oxidation intermediates in plasma from healthy controls and patients affected with peroxisomal disorders by stable isotope dilution gas chromatography mass spectrometry
P	Tserng, K.-Y., et al. J. Lipid Res. 31, 763-771 (1990) Abnormal urinary excretion of unsaturated dicarboxylic acids in patients with medium-chain acyl-CoA dehydrogenase deficiency
Q	Jin, S.-J. and Tserng, K.-Y. J. Lipid Res. 30, 1611-1619 (1989) Identification of isomeric unsaturated medium-chain dicarboxylic acids in human urine
R	Stellaard, F., et al. Clinica Chimica Acta 192, 133-144 (1990) Stable isotope dilution analysis of very long chain fatty acids in plasma, urine and amniotic fluid by electron capture negative ion mass fragmentography
S	ten Brink, H.J., et al. J. Lipid Res. 33, 41-7 (1992) Pristanic acid and phytanic acid in plasma from patients with peroxisomal disorders: stable isotope dilution analysis with electron capture negative ion mass fragmentography
T	Zhou, Y.-T., et al. Proc. Natl. Acad. Sci. USA 96, 23941-2395 (1999) Reversing adipocyte differentiation: Implications for treatment of obesity

	U	Young, S.P., et al. Clinical Science <b>101</b> , 697-705 (2001) Effects of phytanic acid on the vitamin E status, lipid composition, and physical properties of retinal cell membranes: implications for adult Refsum disease
	V	Zomer, A.W.M., et al., J. Lipid Res. <b>41</b> , 1801-7 (2000) Pristanic acid and phytanic acid: naturally occurring ligands for the nuclear receptor peroxisome proliferator-activated receptor $\alpha$
	W	Kase, B.F., et al. Anal. Biochem. <b>196</b> , 95-8 (1991) Separation of phytanic and pristanic acid by high-pressure liquid chromatography: application of the method
	X	Schluter, A., et al., Internat. J. Obesity <b>26</b> , 1277-1280 (2002) The chlorophyll-derived metabolite phytanic acid induces white adipocyte differentiation
	Y	Gibbons, G.F. Prog. Lipid Res. <b>42</b> , 479-497 (2003) Regulation of fatty acid and cholesterol synthesis: co-operation or competition?
	Z	Rontani, J.-F., et al. Appl. Environ. Microb. <b>65</b> , 5484-5492 (1999) Biodegradation of free phytol by bacterial communities isolated from marine sediments under aerobic and denitrifying conditions
	AA	Paton, B.C., et al. J. Clin. Invest. <b>97</b> , 681-688 (1996) Oxidation of pristanic acid in fibroblasts and its application to the diagnosis of peroxisomal $\beta$ -oxidation effects
	BB	Jin, S.-J., et al. J. Biol. Chem. <b>267</b> , 119-125 (1992) Incomplete fatty acid oxidation, the production and epimerization of 3-hydroxy fatty acids
	CC	Liebich, H.M., et al. J. Chromatog. <b>199</b> , 181-189 (1980) Gas chromatography-mass spectrometry of saturated and unsaturated dicarboxylic acids in urine
	DD	Vreken, P., et al. J. Chromatog. B <b>713</b> , 281-7 (1998) Rapid stable isotope dilution analysis of very-long-chain fatty acids, pristanic acid and phytanic acid using gas chromatography-electron impact mass spectrometry
	EE	Croes, K., et al. J. Lipid Res. <b>40</b> , 601-6 (1999) Stereochemistry of the $\alpha$ -oxidation of 3-methyl-branched fatty acid in rat liver
	FF	Croes, K., et al. Eur. J. Biochem. <b>240</b> , 674-683 (1996) $\alpha$ -oxidation of 3-methyl-substituted fatty acid in rat liver, production of formic acid instead of $\text{CO}_2$ , cofactor requirements subcellular localization and formation of a 2-hydroxy-3-methylacyl-CoA intermediate
	GG	Vanhove, G., et al. J. Biol. Chem. <b>266</b> , 24670-5 (1991) Mitochondrial and peroxisomal $\beta$ oxidation of the branched chain fatty acid 2-methylpalmitate in rat liver
	HH	Foulon, V., et al. Proc. Natl. Acad. Sci. USA <b>96</b> , 10039-10044 (1999) Purification, molecular cloning and expression of 2-hydroxyphytanoyl-CoA lyase, a peroxisomal thiamine pyrophosphate-dependent enzyme that catalyzes the carbon-carbon bond cleavage during $\alpha$ -oxidation of 3-methyl-branched fatty acids
	II	Amery, L. et al. J. Lipid Res. <b>41</b> , 1752-59 (2000) Mitochondrial and peroxisomal targeting of 2-methyl-CoA racemase in humans
	JJ	Kotti, T.J., et al. J. Biol. Chem. <b>275</b> , 20887-95 (2000) In mouse $\alpha$ -methylacyl-CoA racemase, the same gene product is simultaneously located in mitochondria and peroxisomes
	KK	Mukherji, M., et al. Prog. J. Lipid Res. <b>42</b> , 359-76 (2003) The chemical biology of branched-chain lipid metabolism
	LL	Shieh, W.-R. And Chen C.-S. J. Biol. Chem. <b>258</b> , 3487-93 (1993) Purification and characterization of novel "2-arylpropionyl-CoA epimerases" from rat liver cytosol and mitochondria
	MM	Reichel, C., et al. J. Pharmac. and Exptl. Therapeutics <b>51</b> , 576-82 (1997) Molecular cloning and expression of a 2-arylpropionyl-Coezyme A epimerase: a key enzyme in the inversion metabolism of ibuprofen
	NN	Reichel, C., et al. Biochem. Pharmacol. <b>50</b> , 1803-6 (1995) 2-arylpropionyl-CoA epimerases: partial peptide sequence and tissue localization
	OO	Ferdinandusse, S., et al. J. Lipid Res. <b>41</b> , 1890-96 (2000) Subcellular localization and physiological role of $\alpha$ -methylacyl-CoA racemase
	PP	Steinberg, D., et al. Biochem. Biophys. Res. Comm. <b>19</b> , 783-789 (1965) Conversion of U-C <sup>14</sup> -Phytol to phytanic acid and its oxidation in Heredopathia atactica polyneuritiformis
	QQ	Hansen, R.P., et al. Biochim. Biophys. Acta <b>116</b> , 178-80 (1966) The fate of phytanic acid when administered to rats
	RR	Avigan, J. Biochim. Biophys. Acta <b>116</b> , 391-4 (1966) The presence of phytanic acid in normal human and animal plasma
	SS	Mize, C.E., et al. J. Lipid Res. <b>7</b> , 692-697 (1966) Metabolism of phytol U- <sup>14</sup> C and phytanic acid-U- <sup>14</sup> C in the rat
	TT	Avigan, J., et al. Biochim. Biophys. Res. Comm. <b>24</b> , 838-844 (1966) Alpha-decarboxylation, an important pathway for degradation of phytanic acid in animals
	UU	Avigan, J. Biochim. Biophys. Acta <b>125</b> , 607-10 (1966) Pristanic acid (2,6,10,14-tetramethylpentadecanoic acid) and phytanic acid (3,7,11,15-tetramethylhexadecanoic acid) content of human and animal tissues
	VV	Mize, C.E., et al. Biochim. Biophys. Res. Comm. <b>25</b> , 359-365 (1966) A pathway for oxidative degradation of phytanic acid in mammals
	WW	Baxter, J.H. and Steinberg, D. J. Lipid Res. <b>8</b> , 615-20 (1967) Absorption of phytol from dietary chlorophyll in the rat
	XX	Baxter, J.H. and Steinberg, D. J. Lipid Res. <b>9</b> , 636-41 (1968) Absorption of chlorophyll phytol in normal man and in patients with Refsum's disease

YY	Baxter, J.H. and Milne, G.W.A. <i>Biochim. Biophys. Acta.</i> <b>176</b> , 265-77 (1969) Phytanic acid: identification of five isomers in chemical and biological products of phytol
ZZ	Jansen, G.A. et al. <i>Biochem. Biophys. Res. Comm.</i> <b>283</b> , 674-9 (2001) Identification of pristanal dehydrogenase activity in peroxisomes: conclusive evidence that the complete phytanic acid $\alpha$ -oxidation pathway is localized in peroxisomes
AAA	Ferdinandusse, Ss., et al. 2-methyl branched-chain fatty acid $\beta$ -oxidation in peroxisomes and mitochondria and the role of 2-methylacyl-CoA racemase therein. In <i>New Avenues of Research in Fatty Acid Oxidation and Ketone Body Metabolism</i> , Eaton and Quant Ed FAOKX Press, London 2001
BBB	Vanhoren, J.C.T., et al. <i>Int. J. Biochem.</i> <b>26</b> , 1095-1101 (1994) Activation of 3-methyl-branched fatty acids in rat liver
CCC	Van Veldhoven, P.P. et al. <i>FEBS Lett.</i> <b>388</b> , 80-84 (1996) Peroxisomal $\beta$ -oxidation of 2-methyl-branched acyl-CoA esters: stereospecific recognition of the 2S-methyl compounds by trihydroxycoprostanoyl-CoA oxidase and pristanoyl-CoA oxidase
DDD	Dieuadie-Noubhani, M., et al. <i>Biochem. J.</i> <b>325</b> , 367-73 (1997) Evidence that multifunctional protein 2, and not multifunctional protein 1, is involved in the peroxisomal $\beta$ -oxidation of pristanic acid
EEE	Ackman, R.G., et al. <i>Lipids</i> <b>2</b> , 357-362 (1967) The occurrence of diastereomers of phytanic and pristanic acids and their determination by gas-liquid chromatography
FFF	Dhopeshwarkar, G.A. <i>Prog. Lipid Res.</i> <b>19</b> , 107-118 (1981) Naturally occurring food toxicants: toxic lipids
GGG	Stokke O., et al. <i>Scand. J. Clin. Lab. Invest.</i> <b>46</b> , 3-10 (1986) Disorders related to the metabolism of phytanic acid
HHH	van den Branden, C., et al. <i>Pediat. Res.</i> <b>20</b> , 411-15 (1986) Phytol and peroxisome proliferation
III	Vallance, H. and Applegarth, D. <i>Clin. Biochem.</i> <b>27</b> , 183-6 (1994) An improved method for quantification of very long chain fatty acids in plasma
JJJ	Schmitz, W., et al. <i>Eur. J. Biochem.</i> <b>222</b> , 313-323 (1994) Purification and properties of an $\alpha$ -methylacyl-CoA racemase from rat liver
KKK	Pahan, K. and Singh, I. <i>J. Lipid Res.</i> <b>36</b> , 986-997 (1995) Phytanic acid oxidation: topographical localization of phytanoyl-CoA ligase and transport of phytanic acid in human peroxisomes
LLL	Mihalik, S.J., et al. <i>Eur. J. Biochem.</i> <b>232</b> , 545-551 (1995) Phytanic acid $\alpha$ -oxidation in rat liver peroxisomes
MMM	Watkins, P.A., et al. <i>J. Lipid Res.</i> <b>37</b> , 2288-2295 (1996) Phytanic acid activation in rat liver peroxisomes is catalyzed by long-chain acyl-CoA synthetase
NNN	Schmitz, W. and Conzelmann, E. <i>Eur. J. Biochem.</i> <b>244</b> , 434-440 (1997) Stereochemistry of peroxisomal and mitochondrial $\beta$ -oxidation of $\alpha$ -methylacyl-CoAs
OOO	Clayton, P.T. <i>Biochem. Soc. Trans.</i> <b>29</b> , 298-305 (2001) Clinical consequences of defects in peroxisomal $\beta$ -oxidation
PPP	Little, J.M. et al. <i>Drug Metab. Dispos.</i> <b>30</b> , 551-553 (2002) Glucoronidation of the dietary fatty acids, phytanic acid and docosahexaenoic acid, by human UDP-glucuronosyltransferases
QQQ	Heim, M. et al. <i>FASEB J.</i> <b>16</b> , 718-720 (2002) Phytanic acid, a natural peroxisome proliferator-activated receptor (PPAR) agonist, regulates glucose metabolism in rat primary hepatocytes
RRR	Browne, G.S., et al. <i>Biochem. Pharmacol.</i> <b>57</b> , 837-44 (1999) Stereoselective and substrate-dependent inhibition of hepatic mitochondrial $\beta$ -oxidation and oxidative phosphorylation by the non-steroidal inflammatory drugs ibuprofen, flurbiprofen and ketorolac
SSS	Dacremont, G., et al. <i>J. Inher. Metab. Dis.</i> <b>18</b> , 76-83 (1995) Measurement of very long-chain fatty acids, phytanic and pristanic acid in plasma and cultured fibroblasts by gas chromatography
TTT	Rezanka, T. and Votruba, J. <i>Anal. Chim. Acta</i> <b>465</b> , 273-297 (2002) Chromatography of very long-chain fatty acids from animal and plant kingdoms
UUU	Egge, H., et al. <i>FEBS Lett.</i> <b>2</b> , 255-8 (1969) Minor constituents of human milk (I) identification of cyclohexaneundecanoic acid and phytanic acid in human milk fat by a combination gas chromatograph-mass spectrometer
VVV	Lough, A.K. <i>Lipids</i> <b>12</b> , 115-9 (1976) The phytanic acid content of the lipids of bovine tissues and milk
WWW	Verhoeven, N.M., et al. <i>Biochem. Biophys. Res. Comm.</i> <b>237</b> , 33-36 (1997) Resolution of the phytanic acid $\alpha$ -oxidation pathway: identification of pristanal as the product of the decarboxylation of 2-hydroxyphytanoyl-CoA
XXX	Brown, W.G. <i>Org. React.</i> <b>6</b> , 469-509 (1951) Reductions by lithium aluminum hydride

**EXAMINER**

**DATE CONSIDERED**

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.